

2020 ADVANCED DUI TRIAL ADVOCACY

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Useful DUI Studies

Presented by:

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List of cannabis studies from society for forensic scientists.

Cannabis

- Asbridge, M. et al. [Acute cannabis consumption and motor vehicle collision risk: systematic review of observational studies and meta-analysis](#). *BMJ* 344 (2012)
- [New]Bondallaz, P. et al. [Cannabis and its effects on driving skills](#). *Forensic Sci Int* 268:92-102 (2016)
- [Drugs and Human Performance Fact Sheets – Cannabis/Marijuana \(\$\Delta\$ -9-tetrahydrocannabinol, THC\)](#). National Highway and Safety Administration, DOT HS 809 725 (2004)
- [New]Dubois, S. et al. [The combined effects of alcohol and cannabis on driving: Impact on crash risk](#). *Forensic Sci Int* 248:94-100 (2015)
- Hartman, R.L. et al. [Cannabis effects on driving skills](#). *Clin Chem* 59:478-492 (2013)
- [New]Hartman, R.L. et al. [Cannabis effects on driving lateral control with and without alcohol](#). *Drug Alcohol Depend* 154:25-37 (2015)
- [New]Hartman, R.L. et al. [Cannabis effects on driving longitudinal control with and without alcohol](#). *J Appl Toxicol* 36:1418-1429 (2016)
- [New]Hartman, R.L. et al. [Effect of blood collection time on measured \$\Delta\$ 9-tetrahydrocannabinol concentrations: implications for driving interpretation and drug policy](#). *Clin Chem* 62:367-377 (2016)
- Heishman, S.J. et al. [Acute and residual effects of marijuana: profiles of plasma THC levels, physiological, subjective, and performance measures](#). *Pharmacol Biochem Behav* 37:561-565 (1990)
- Huestis, M.A. et al. [Blood cannabinoids. I. Absorption of THC and formation of 11-OH-THC and THCCOOH during and after smoking marijuana](#). *J Anal Toxicol* 16: 276-282 (1992)
- Huestis, M.A. et al. [Blood cannabinoids. II. Models for the prediction of time of MJ exposure from plasma concentrations of \$\Delta\$ 9-tetrahydrocannabinol \(THC\) and 11-nor-9-carboxy- \$\Delta\$ 9-tetrahydrocannabinol \(THCCOOH\)](#). *J Anal Toxicol* 16: 283-290 (1992)
- Huestis, MA. Cannabis (Marijuana) – Effects on Human Behavior and Performance. In: *Forensic Science Review*, Birmingham, Alabama: Central Police University Press, 2002: 16-60.
- Huestis, M.A. et al. [Estimating the time of last cannabis use from plasma \$\Delta\$ 9-tetrahydrocannabinol and 11-nor-9-carboxy- \$\Delta\$ 9-tetrahydrocannabinol concentrations](#). *Clin Chem* 51:12: 2289-2295 (2005)
- Huestis, M.A. et al. [Estimating the time of last oral ingestion of cannabis from plasma THC and THCCOOH concentrations](#). *Ther Drug Monitor*:28 540-544 (2006)
- Li, M.C. et al. [Marijuana use and motor vehicle crashes](#). *Epidemiol Rev* 34:65-72 (2012)
- Mehmedic, Z. et al. [Potency Trends of \$\Delta\$ 9-THC and Other Cannabinoids in Confiscated Cannabis Preparations from 1993-2008](#). *J Forensic Sci*:55 1209-1217 (2010)

- National Safety Council-Committee on Alcohol and Other Drugs. [Position on the Use of Cannabis \(Marijuana\) and Driving](#). *J Anal Toxicol* 37:47-49 (2013)
- [New]Neavyn, M.J. et al. [Medical marijuana and driving: a review](#). *J Med Toxicol* 10:269-279 (2014)
- Ramaekers, J.G. et al. [Cognition and motor control as a function of \$\Delta\$ -9-THC concentration in serum and oral fluid: Limits of impairment](#). *Drug Alcohol Depend* 85:114-122 (2006)
- Ramaekers, J.G. et al. [Marijuana, alcohol and actual driving performance](#). *Hum Psychopharmacol* 15:551-558 (2000)
- Ramaekers, J.G. et al. [Dose related risk of motor vehicle crashes after cannabis use](#). *Drug Alcohol Depend* 73:109-119 (2004)
- Ramaekers, J.G. et al. [Cognition and motor control as function of \$\Delta\$ ⁹-THC concentration in serum and oral fluid: limits of impairment](#). *Drug Alcohol Depend* 85:114-122 (2006)
- Ramaekers, J.G. et al. [High-potency marijuana impairs executive function and inhibitory motor control](#). *Neuropsychopharmacology* 31:2296-2303 (2006)
- Schwoppe, D. M. et al. [Identification of recent cannabis use: whole-blood and plasma free and glucuronidated cannabinoid pharmacokinetics following controlled smoked cannabis administration](#). *Clin Chem* 57:1406-1414 (2011)